


 Senyta Intelligent Equipment Co., Ltd.

 029-85796416

 shangyidaservice@gmail.com

 <https://www.sydauto.com/>

 Shaanxi Aerospace Power Innovation Center, No. 168 Xihu Road, Chang'an District, Xi'an, Shaanxi, China

 Liucunbao Industrial Park, Fengchan Road, Weiyang District, Xi'an, Shaanxi, China (R&D Center)

Tracked Self-Propelled Air-Assisted Sprayer (3WTE-120L-B / 3WTE-280L-B)

Product Description

An intelligent plant protection robot series covering different orchard scenarios

This product series is built for plant protection management scenarios in orchard economic crops, covering different needs from flexible, light operations to high-capacity continuous operations. The 3W-120-B is better suited for small to medium orchards, narrow row spacing, and scenarios requiring operational flexibility; the 3W-280-B model targets plant protection tasks with higher intensity and broader coverage.

The series balances complex terrain adaptability, intelligent spraying capabilities, and efficient daily management needs. The tracked chassis provides better off-road capability in complex orchard terrain while reducing disturbance to the ground surface and crop root zones. The option to attach towed mowing modules (inter-row, intra-row, flail type) makes it even more suitable for daily plant protection and refined management in modern orchards.

Application Scenarios:

Vineyards, orchards, hilly economic crop planting areas, and daily plant protection and maintenance operations.



Product Features

- ✓ 120 L / 280 L dual configurations, covering different operational intensities.
- ✓ Supports autonomous driving and multi-machine collaborative operation
- ✓ Track drive adapts to hilly and complex terrains
- ✓ Pure electric drive, supports quick battery swapping, reducing downtime
- ✓ Supports night operation for higher operational efficiency
- ✓ More uniform mist, more stable spray coverage

Weeding Module

Designed specifically for complex farmland environments, this machine integrates high-efficiency mowing and precision spraying in one solution.

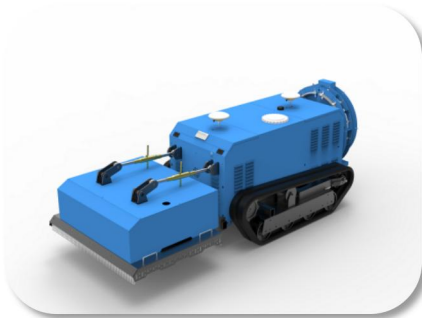
It offers three mowing modes—inter-row, intra-row, and flail mowing—available as optional configurations to comprehensively meet diverse weed-control needs.

Equipped with an intelligent control system, it supports remote control, unmanned operation, and path planning, ensuring safe and efficient operation.

The adjustable chassis height allows it to easily adapt to varied and challenging terrain.



Swing Blade Weeding



Inter-row Weeding



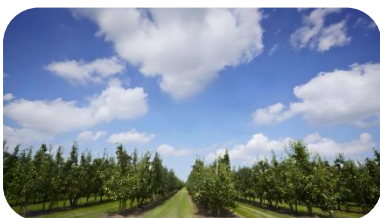
Intra-row Weeding

Product Parameters

Model	3W-120L	3W-280L
Overall Dimensions	1430*950*840 (±5%) mm	1850*1050*1000 (±5%) mm
Weight	360 kg	380 kg
Working Pressure	2.0 MPa	2.0 MPa
Drive Type	Tracked Drive	Tracked Drive
Steering Type	Differential Steering	Differential Steering

Horizontal Spray Range or Spray Width	16m (Dual Side)	16m (Dual Side)
Minimum Ground Clearance	110 mm	180 mm
Climbing Angle	30°	30°
Track Width	150 mm	150 mm
Traveling Power	1.0 kW*2	1.5 kW*2
Fan Power	1.5 kW	1.0 kW
Water Pump Power	1.1 kW	1.1 kW
Motor Speed	3000 r/min	3000 r/min
Tank Material	PE	PE
Tank Capacity	120 L	280 L
Impeller Material	Nylon Blades	Nylon Blades
Impeller Diameter	500 mm	480 mm
Battery Type	Lithium Battery	Lithium Battery
Battery Standard Voltage	48 V	48 V
Built-in Quantity	Units	Units
Battery Capacity	40Ah	40Ah

Application Scenarios



Orchard Operations



Hilly Terrain



Vineyard Operations